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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,581	07/20/2001		Nathan R. Brown	500200.02	3036
27076	7590 04/13/2004			EXAMINER	
~ ~ ~ ~ ~		NEY LLP	GRANT, ALVIN J		
SUITE 340		ROPERTY DEPARTI	ART UNIT	PAPER NUMBER	
1420 FIFTH AVENUE				3723	10
SEATTLE, WA 98101			DATE MAILED: 04/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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• 1		Application N .	Applicant(s)	
Office Action Summary		09/909,581	BROWN, NATHAN R.	
		Examiner	Art Unit	_
		Alvin J Grant	3723	
TI Period for Re	ne MAILING DATE of this communication eply	appears on the cover sheet wi	th the corresp ndence address	
THE MAII  - Extensions after SIX (if the period of the per	TENED STATUTORY PERIOD FOR RELING DATE OF THIS COMMUNICATION OF THIS COMMUNICATION OF THE PROVISIONS OF 37 CF 13 MONTHS from the mailing date of this communication of for reply specified above is less than thirty (30) days, and for reply is specified above, the maximum statutory pereply within the set or extended period for reply will, by specied by the Office later than three months after the number term adjustment. See 37 CFR 1.704(b).	ON.  R 1.136(a). In no event, however, may a rent.  a reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MON that the cause the application to become AB	eply be timely filed  (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status				
2a)⊠ Thi 3)⊡ Sin	sponsive to communication(s) filed on $\underline{2}$ s action is <b>FINAL</b> . 2b) $\Box$ ce this application is in condition for allowed in accordance with the practice under $\underline{2}$	This action is non-final.  wance except for formal matte	· ·	
Disposition (	of Claims			
4a) 5)⊠ Cla 6)⊠ Cla 7)⊠ Cla	im(s) 1,4-13 and 60-87 is/are pending i Of the above claim(s) is/are with im(s) 60-87 is/are allowed. im(s) 1,4,7-10,12 and 13 is/are rejected im(s) 5,6 and 11 is/are objected to. im(s) are subject to restriction ar  Papers	drawn from consideration.		
9) <u></u> The	specification is objected to by the Exar	miner.		
· <u> </u>	· _	accepted or b)  objected to I	by the Examiner.	
Apr	licant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
	placement drawing sheet(s) including the co		, ,	
11) <u></u> The	oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.	
Priority unde	er 35 U.S.C. § 119			
a)	Certified copies of the priority docum	nents have been received. nents have been received in A priority documents have been ireau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)	Poferances Cited (PTO 902)	مارين	umman (PTO 412)	
2) Notice of 3) Information	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948 in Disclosure Statement(s) (PTO-1449 or PTO/SE s)/Mail Date <u>7</u> .	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application (PTO-152) 	

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 4, 7, 10, 12 13 are rejected under 35 U.S.C. 102(e) as being anticipated by Nagahara et al. '288.

Nagahara et al. discloses a carrier for supporting a microelectronic substrate relative to a planarizing medium during planarization of the microelectronic substrate, the carrier comprising: a support member, and a flexible, compressible membrane adjacent to the support member (column 7, lines 61-65), the membrane having a first portion with a first thickness and a second portion with a second thickness greater than the first thickness (112), the first portion of the membrane being aligned with a first part of the microelectronic substrate (20), the second portion of the membrane being aligned with a second part of the microelectronic substrate, the substrate directly contacting the membrane and being held stationary with respect to the membrane as the substrate is moved relative to the planarizing medium; the membrane has a first surface facing a generally flat surface of the support member and a second surface facing opposite the first surface toward the microelectronic substrate when the membrane engages the microelectronic substrate, the first surface being generally in direct contact with the flat surface of the support member; the membrane has a generally circular platform shape and the first and second portions

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are annular with the second portion disposed radially inwardly from the first portion; the first thickness of the membrane is approximately 0,030 inches (column 7, lines 61-65); the first and second portions are adjacent to each other; and the first and second portions of the membrane are radially disposed relative to each other and an intermediate thickness of the membrane varies in a generally continuous manner between the first thickness and the second thickness (Fig. 3).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagahara in view of Roberts et al. '268.

Nagahara is described above. Nagahara does not specifically disclose a membrane made by injection molding, nor does he disclose a molding made from silicone. Roberts et al. discloses silicone rubber polishing pads made of silicone and by the process of injection molding so that the physical properties can be fine-tuned. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have made the molding of Nagahara out of silicone and by the process of injection molding as taught by Roberts et al. respectively for its compressibility and the fine-tuning capabilities provided thereby.

### Allowable Subject Matter

Claims 5, 6 and 11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claims 60-87 are allowed.

### Response to Arguments

Applicant's arguments with respect to **claims 1 and 4-13** have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin J Grant whose telephone number is (703) 305-3315. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph J Hail can be reached on (703) 308-2687. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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ajg

Joseph J. Hali, III

Supervisory Patent Examiner Technology Center 3700